To our customers,
On April 1st, 2010, NEC Electronics Corporation merged with Renesas Technology Corporation, and Renesas Electronics Corporation took over all the business of both companies. Therefore, although the old company name remains in this document, it is a valid Renesas Electronics document. We appreciate your understanding.

TM* Integrated Development Environment

* TM is bundled with Renesas C compiler package and assembler package

See Tool News for this product

Last Updated: August 5, 2004

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  "Error No.0001 Internal error.
  An instance of a document could not be created.
  -> Please contact your nearest Renesas office or its distributor."

- * When reading a project created with TM V.1.10, the following question pops up:
  If this project has been created using MR (Renesas real-time OS), this version of TM allows you to integrate MR. Do you wish to use the MR integration function on TM?
  If I answer "YES", I get a message that says the OS package can't be located. Doesn't TM automatically recognize MR7700?
  * I installed TM V.2.00 but I can't work on an SRA74 project which I originally created on TM V.1.12. I tried to create a new project, but TM V.2 only works with the M16C family and won't allow me to select any other MCUs.

- I created a project and quit TM without registering the source file. Then, when I tried to open the project again, it was refused. When I looked at the files with Explorer, I found that the project folder and the *.mtm file had been created. But, when I attempt to create another project under the same name, it is refused because a folder with that name already exists.

Is deleting the entire folder the only way to create a new project? (Aug. 5, 2002)

- When I open a project by TM and copy it with Explorer, for example, I get an error.
- After creating a project file by specifying a start-up file copy, then changing the start-up file name, I can't open the project file any more. Do I have any choice other than edit, or copy and paste, when I want to change the contents of the start-up file? (Aug. 5, 2002)
- I can't change the directory name where the project is located after I have made a new project.
- Can I copy an entire project directory (including project file, source file, header file, etc.) using another name? I want to use the project file and source, but modify the condition settings and source file, etc., then build a new project.
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- In the TM option browser, when I use the lmc30 ID code check option -ID and set -ID#1234, both the ID file (.id) and the Motorola S format file (.mot) become "FF". It seems that when the ID is set in hexadecimal notation, the ID becomes "FF". What is the correct method for setting the ID in hexadecimal notation? (Oct. 19, 2001)
- How can I make the assembler list-file with the M16C compiler NC30WA?
  I know I can make the file with the -as30 "-L" option when I'm compiling without TM, but the -as30 option is not specified in TM. (Aug. 5, 2002)
- Why are there certain options that I can't remove or add (-as30, etc.) when I'm setting compiler options for TM?
- Can I make my own default compiler/assembler options when creating my project?
- I can't compile in TM when I specify many compiler (or assembler) options. Is there a limit to the number of commands I can

use? The error says I must have less than 128 characters in my file name. But, when I eliminate a few options, I have no problems. (Aug. 5, 2002)

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Build

- When I build with TM, a double definition error occurs in an identical file. How can I prevent this error from occurring? (Mar. 20, 2001)

  [Example of error]
  ERROR NO.10: "NAME00" is multiple defined in .\TES.R74. others in TES.R74

- When the build operation starts, the PC accesses drive A (floppy disk) and continues to do so for more than 1 minute. Why? (Oct. 20, 1999)

- When I execute Build or Rebuild from TM, I get the following message. Of course, make.exe won't run and I can't Build or Rebuild. (Aug. 5, 2002)

  ******** Executing...
  C:\mtool\bin\MAKE.EXE: Interrupt/Exception caught (code = 0xc00000fd, addr= 0x4164e7)
  ******** Finish...

- When I use the following operations and execute a build, the "now rebuilding" message doesn't appear, even though I have changed the compiler options.
  How do I know that it is really rebuilding? (Aug. 5, 2002)

  1. Change the build option, click on OK, and close the window.
  2. Bring up the build option setting screen again, click OK without making any changes, and close the window.
  3. 3.Perform a Build.

- Can the stk30 utility included in the M16C compiler NC30WA be executed from TM? If so, how? (Aug. 5, 2002)

- When I use M16C compiler NC30WA and use TM to build, I get an error during assemble because it can't find the include file in the same directory as the assembler source file.

- Can I modify the Makefile generated by TM?

- What is the renewal timing for the *.mak file generated by TM?

- When the contents of the header file are renewed, does TM only compile the source included in that file?

- What is the method for specifying the order of the module links in the TM environment? (Sep. 20, 2001)

- When I execute a build, I get the following error message.
  When I checked the Makefile, there was no description to create object "XYZ.r30". When I try 'Scan All Dependencies' it indicates that Makefile is supposed to be updated, but nothing happened. (Aug. 5, 2002)

  ```
  make.exe: *** No rule to make target 'Output\XYZ.r30',
  needed by 'Output\sample.x30'.  Stop
  ```

- I got a compile error during a build because the compiler can't find the 'source file' and 'include file' which are located in different directories.

- I have a project file or source file in the networked file server, but I can't perform the build.

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Tag Jump

- When the compile result is properly output on the output window and I double click on an error message for a tag-jump, TM opens the editor window, but does not let me go to the corresponding source line. What is wrong? (I am using Mifes V3.0.)

- When an error occurs in the results of my BUILD, I double-click on the line displaying the error in the output window, but the editor doesn't display the corresponding line.

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Debug

- After I debug my project with TM, I save the project and quit the program. The next time I open the project and load it to your emulator, it tells me to build again, even though I haven't made any modifications since I saved it. Why? (Aug. 5, 2002)

- I want to specify the parameters for executing the debugger. (Aug. 5, 2002)

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Other Tools

- When I want to use other tools with TM V.2.00 and I modify the current directory, I have no problems immediately after the modification, but, when I re-open the project, the current directory information has not been saved. To be specific, I want to change the current directory to "Working Directory", but whenever I re-open the project, it always goes back to "Directory that contains the execution file". Why? (Aug. 5, 2002)

- When I execute other tools by going from [Action] --> [Other] in the TM menu, I get the following message. Is this a problem? This message does not come up when I execute LMC30 in DOS window.

  "Code Page 932 is not supported by this system."

- Can I use "%F" with Other Tools when specifying a parameter, such as a file name?

- When I execute other tools by going from [Action] --> [Other] in the TM menu, I get the following message: Out of parameter limits.

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Other

- How do I create ROM programming data with TM? (June 21, 2004)

- Can I use TM V.2.01 and NC308WA V.3.00 together? (Nov. 6, 2000)

- When I make the TM window smaller than the Output window, the Tree and View windows are both hidden. In this situation, how can I make the Tree, View, and Output windows smaller? (Apr. 5, 2000)

- It seems that the latest TM version takes much longer to load or compile a project. Is this something that can't be avoided due to additional functions in upgraded versions? (Aug. 5, 2002)

- I can't quit TM V.1.00. I've tried pressing the X mark at the top-right of the screen or using ALT + F4, but they don't work. The only way to quit TM is to reset my PC or press Ctrl + Alt + Delete. (Aug. 5, 2002)

- I want to change the TAB and FONT settings in the view window. If it is possible, I want to change them for each file type. Also, can I bring the editor cursor position to the position I have already set in the view window as soon as I execute the editor from TM? (Aug. 5, 2002)

- Does the File Tree actually create the Target, Source, and Header folders that are displayed in the tree?

- Can I make my source directory with the File Tree and manage my files through it?

- Can I create a new directory in the working directory and keep files (source file, header file) there? Also, will File Tree properly display them when I do this?

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Last Updated: February 20, 2004
Document Number: 03120504_e

TM V.3.20, V.3.20A Internal Error

```
------------------------------------------------
<ERROR> Internal Error
D:\TM_V3\ProjectEditor\ProjectData\ProjectData.cpp(<line number>)
Please contact your nearest Renesas office or its distributor.
------------------------------------------------
```

If an internal error occurs in the format shown above, please confirm all of the following items.

- When the <Line Number> is 275, 284, 290, 311, 344, 352, 408, or 414:
  The project file has been damaged. Please re-create the file.

- When the <Line Number> is 374, 381, 387, 484, 493, or 600:
  The problem most likely is in the project file name or directory name. Make sure you are not using 2-byte code and space characters in either name. If the "read-only" is one of the attributes of the project file or working directory (including the intermediate path), please remove the read-only attribute.

- When the <Line Number> is 475:
  The compiler may not have been installed successfully. Please re-install the compiler. For extra security, re-install TM at the same time.

```
------------------------------------------------
Error No. 0010
Internal error.
Inside information can't be established.(Initialization data)
->Please contact your nearest Renesas office or its distributor.
------------------------------------------------
```

If the above error occurs in your system, please check the following items before contacting Renesas.

- Check the project file (extension 'tmi' or 'tmk') attributes to determine whether or not the file is read-only.
  -> If read-only, change the attributes so that the project file can be written to as well.

- Check to make sure there are no Japanese characters (2-byte code) or space characters used in the directory name (including the entire path) where the TM and compiler are installed.
  -> If such characters are detected, rename the directory so that no Japanese characters or spaces are used.

- Check to make sure there are no Japanese characters (2-byte code) or space characters used in the directory name where (including the entire path) the project file was created.
  -> If such characters are detected, rename the directory so that no Japanese characters or spaces are used.

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Last Updated: August 5, 2002
Document Number: 01051123_e

Q.

When I login to WindowsNT with something other than Administrator account and use TM V.3.00, I get Error No. 10. Why?

A.

When an account other than Administrator is used to with TM V.3.00 on WindowsNT, the WindowsNT generates Error No. 10, because this account does not have rights to access the complier information. This problem has been corrected in TM V.3.01 (upgrade date 9/1/00) and all later versions. We suggest you use TM V.3.01 or later.
Please upgrade to the latest TM version.

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Last Updated: August 5, 2002
Document Number: 01051124_e

Q.

When I install a directory name of 9 or more letters, TM does not run properly. If I install a file name of 8 letters or less, I have no problems.

A.

TM V.2.00 (upgrade date 3/16/99) and all later versions have been modified so that you can install long directory names. Please upgrade to the latest TM version. (Note: You can not use a directory name which includes any spaces.)

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Last Updated: August 5, 2002
Document Number: 01051125_e

Q.

When I try to create a new project in a certain directory, I get the following error. I tried to created the project in another directory and had no problems. Why?

> "Error No.0001 Internal error.
> An instance of a document could not be created.
> -> Please contact your nearest Renesas office or its distributor."

A.

This problem occurs when the attribute of the directory is read only.
This problem has been corrected in TM V.2.01 (upgrade date 7/16/99) and all later versions. We suggest you use TM V.2.01 or later.
Please upgrade to the latest TM version.

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Document Number: 01051126_e

Q.

- When reading a project created with TM V.1.10, the following question pops up:
  If this project has been created using MR (Renesas real-time OS), this version of TM allows you to integrate MR. Do you wish to use the MR integration function on TM?
  If I answer "YES", I get a message that says the OS package can't be located. Doesn't TM automatically recognize MR7700?
- I installed TM V.2.00 but I can't work on an SRA74 project which I originally created on TM V.1.12. I tried to create a new project, but TM V.2 only works with the M16C family and won't allow me to select any other MCUs.

A.

The directory which includes the TM setup program also includes a program named V2CVT.EXE. Please execute this program first. (V2CVT should be executed only after you quit TM.)

Concerning V2CVT:
This program fills in the missing configuration, allowing you to use tools which don't have the TM V.2 configuration. As you will see after executing V2CVT, it allows TM to follow the procedure specified in the Wizard Dialog, in the same manner as the install program.

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Last Updated: August 5, 2002
Document Number: 01051127_e

Q.

I created a project and quit TM without registering the source file. Then, when I tried to open the project again, it was refused. When I looked at the files with Explorer, I found that the project folder and the *.mtm file had been created. But, when I attempt to create another project under the same name, it is refused because a folder with that name already exists.
Is deleting the entire folder the only way to create a new project?

A.

TM V.1.11 and all later versions have been corrected so that the user can open a project file which has not yet been registered. We suggest you use TM V.1.11 or later.
Please upgrade to the latest TM version.

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Document Number: 01051129_e

Q.

When I open a project by TM and copy it with Explorer, for example, I get an error.

A.

TM puts a "lock" on the open project file, keeping it protected. When you need to copy a project file, you will need to close the project first, then execute the copy.

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Last Updated: August 5, 2002
Document Number: 01051130_e

Q.

After creating a project file by specifying a start-up file copy, then changing the start-up file name, I can't open the project file any more. Do I have any choice other than edit, or copy and paste, when I want to change the contents of the start-up file?

A.

This problem has been corrected in TM V.1.11 and all later versions. In addition, TM V.2.00 (upgrade date 3/16/99) will allow you to specify an existing start-up file when creating a new project. We suggest you use TM V.2.00 or later.
Please upgrade to the latest TM version.

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Document Number: 01051131_e

Q.

I can't change the directory name where the project is located after I have made a new project.

A.

To change a directory name, close the project file then modify the name.

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Document Number: 01051132_e

Q.

Can I copy an entire project directory (including project file, source file, header file, etc.) using another name? I want to use the project file and source, but modify the condition settings and source file, etc., then build a new project.

A.

No problem. The original project file will not be affected by a copy with different condition settings or a modified source file.

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Last Updated: August 5, 2002
Document Number: 01051133_e

Q.

I want to create a project in a directory that already exists.

A.

TM V.2.00 (upgrade date 3/16/99) and all later versions allow you to create a project in a directory that already exists. We suggest you use TM V.2.00 or later.
Please upgrade to the latest TM version.

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Last Updated: August 5, 2004
Document Number: 04070503_e

Q.

What characters cannot be used in file paths when using TM?

A.

The following characters cannot be used:

- The following symbols:
  & ( ) [ ] { } ^ = ; ! ' + , ` ~
- All Kanji (Chinese) characters
  (some kanji can be used without problems but, fundamentally, use of characters with 2-byte codes are not guaranteed.)
- Spaces

Note: As the specifications of the shells used in TM (Windows 98: command.com, Windows NT: cmd.exe) differ, conditions that cause character errors may differ according to the user's OS.

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Last Updated: April 04, 2003
Document Number: 03030502_e

Q.

Please explain how to modify the link sequence for the source file when using TM V.3.

A.

Using the following procedure to modify the link sequence.

1. Select "project name".cmd from the tree on the left-hand side in the project editor.
2. Open the command dialog by clicking on the following in the menu: [Project] -> [Edit Item] -> [Command].
3. Select the line you want to modify from the link command list displayed in the command dialog. Use the [Up] and [Down] buttons to move the line.

   Note: If you are using TM V.3.00 to V.3.11, use the [Edit] Button to modify the sequence so that [>] is the redirect signal for the first line of the command list, and [>>] is the signal for all other lines.
   For more details, refer to the MAEC Tool News "TM Precaution" issued on Dec. 1, 2001.
   The above procedure was fixed in TM Version 3.20.
4. After modifications are completed, click [OK] in the command dialog.

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Last Updated: August 5, 2002
Document Number: 01051134_e

Q.

When I alternate between TM and Mifes (editor), the source file registration is sometimes canceled. What can I do to prevent this?

A.

This problem has been corrected in TM V.1.11 and all later versions. We suggest you use TM V.1.11 or later.
Please upgrade to the latest TM version.

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Last Updated: August 5, 2002
Document Number: 01051135_e

Q.

When I am using WindowsNT, I can't register a source file from the Netware network drive to my project.

A.

TM V.1.11 and all later versions have been corrected so that you can register a file from the Netware network drive to your project.
We suggest you use TM V.1.11 or later.
Please upgrade to the latest TM version.

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Last Updated: August 5, 2002
Document Number: 01051136_e

Q.

When I add a comment to the .include line of the assembly language specifier, TM can't find the include file. Is this part of the specifications?

A.

This problem has been corrected in TM V.1.11 and all later versions. We suggest you use TM V.1.11 or later.
Please upgrade to the latest TM version.

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Document Number: 01051137_e

Q.

Does the source file extension for TW32R have to be an upper-case ".S"? Can I also use a lower-case ".s"?

A.

You can register an assembly source file using the ".S" or ".s" extension. In addition, in the assembler default option, the (-x assembler-with-cpp) option is specified in order to execute the C preprocessor. Therefore, you will need to change the option to "-x assembler" if you do not want the C preprocessor to be executed.

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Document Number: 01051138_e

Q.

Does the source file extension for TW32R have to be either ".c" or ".S" in order to register it in a project?

A.

Yes.
TM uses these extensions to understand which source file corresponds to which software tool. The information concerning these extensions is registered in the registry along with the tool information. Since TM operates by referencing this information, other extensions cannot be registered.

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Document Number: 01051139_e

Q.

Can I register more than one .c file when registering source files?

A.

Yes. If the source files are in one directory, you can use the following steps to register these files

- When selecting one block of files, specify files while pressing the shift key.
- When selecting individual files, specify files while pressing the control key.

Files located in different directories cannot be registered at the same time.

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Document Number: 01051140_e

Q.

Can I modify extensions?

A.

If you use the Makefile that TM automatically output, you cannot change the file extensions. TM uses these extensions to understand which source files corresponds to which software tool. You can modify the file extensions of your own Makefile, but TM won't accept these files properly in the Makefile, nor will it recognize the option settings, etc.

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Last Updated: October 19, 2001
Document Number: 01100501_e

Q.

In the TM option browser, when I use the lmc30 ID code check option -ID and set -ID#1234, both the ID file (.id) and the Motorola S format file (.mot) become "FF". It seems that when the ID is set in hexadecimal notation, the ID becomes "FF". What is the correct method for setting the ID in hexadecimal notation?

A.

When setting the ID in hexadecimal notation in the option browser, please use the following.

-ID\#1234

In versions TM V.3.00 and later, the GNU Make command is executed based on the make file (TMK file) generated with the project editor. Therefore, the numbers after "#" are regarded as a comment (This is the makefile spec.) and the specified "-ID#1234" is processed as "-ID". Accordingly, all the ID values become "FF". Please note that in TM V.2.xx, this must be set as "-ID#1234".

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Last Updated: August 5, 2002
Document Number: 01051141_e

Q.

How can I make the assembler list-file with the M16C compiler NC30WA?
I know I can make the file with the -as30 "-L" option when I'm compiling without TM, but the -as30 option is not specified in TM.

A.

TM V.2.00 (upgrade date 3/16/99) and all later versions have been modified so that you can use the -as30 option. We suggest you use TM V.2.00 or later.
Please upgrade to the latest TM version.

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Document Number: 01051142_e

Q.

Why are there certain options that I can't remove or add (-as30, etc.) when I'm setting compiler options for TM?

A.

These may be limitations caused by the integration of TM with the assembler and compiler. (This kind of limitation does not occur when the compiler and assembler are executed with their own command line option.)

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Document Number: 01051143_e

Q.

Can I make my own default compiler/assembler options when creating my project?

A.

No, you cannot.
However, you can use the option combinations you have set so far, since they are recorded in the log, using the following procedure.

1. Open the Option Setting Dialog in the BUILD tab of the Project Setting Dialog.
2. Click on [Load defined option] and the Load Option Dialog will open.
3. Select the option combination you want to use.
4. By setting the [Over Load] to ON, all other options, except for the one selected in this dialog, will be released. When the [Over Load] is set to OFF, the option selected in this dialog will be added to the default options.
5. Click on [OK] to close the dialog.

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Last Updated: August 5, 2002
Document Number: 01051144_e

Q.

I can't compile in TM when I specify many compiler (or assembler) options. Is there a limit to the number of commands I can use? The error says I must have less than 128 characters in my file name. But, when I eliminate a few options, I have no problems.

A.

This limitation concerning the number of characters in the command name has been eliminated in TM V.2.00 (upgrade date 3/16/99) and all later versions. We suggest you use TM V.2.00 or later.
Please upgrade to the latest TM version.

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Last Updated: March 20, 2001
Document Number: 01051145_e

Q.

When I build with TM, a double definition error occurs in an identical file. How can I prevent this error from occurring?

[Example of error]
ERROR NO.10: "NAME00" is multiple defined in .\TES.R74. others in TES.R74

A.

In terms of the above example, this error occurs due to the following situation:
When "TES.R74" is specified in the SRA74 (or RASM77) directive command ".OBJ", and the "TES.R74" source file is added to the TM project, TM automatically creates the process up through the link step. This results in duplicate links for TES.R74 and an error occurs at the label definition location.
When you are using TM, make sure you delete ".OBJ" from the source program.

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Last Updated: October 20, 1999
Document Number: 01051146_e

Q.

When the build operation starts, the PC accesses drive A (floppy disk) and continues to do so for more than 1 minute. Why?

A.

To avoid the program without removing the virus scan program:
This phenomena often depends on your virus scan program features and settings. When the program has a drive option for scan location settings, please dismount drive A. This configuration setting should take care of this problem.

Example: using McAfee VShield 3.1.0 H
Please open 'property' (VShield setting) and select 'scantag'. Then clear the 'disk scan' access item and complete the setting.

Please review the manual included with the virus check program for detailed instructions concerning the disk scan.

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Last Updated: August 5, 2002
Document Number: 01051147_e

Q.

When I execute Build or Rebuild from TM, I get the following message:

```
******** Executing...
C:\mtool\bin\MAKE.EXE: Interrupt/Exception caught (code = 0xc00000fd, addr= 0x4164e7)
******** Finish...
```

Of course, make.exe won't run and I can't Build or Rebuild.

A.

This problem occurs when [Cygwin32] is installed on the user's PC.
Probably you have a path set for Cygwin in your autoexec.bat or somewhere else.

This problem has been corrected in TM V.2.01 (upgrade date 7/16/99) and all later versions. We suggest you use TM V.2.01 or later.
Please upgrade to the latest TM version.

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Last Updated: August 5, 2002
Document Number: 01051148_e

Q.

When I use the following operations and execute a build, the "now rebuilding" message doesn't appear, even though I have changed the compiler options.

1. Change the build option, click on OK, and close the window.
2. Bring up the build option setting screen again, click OK without making any changes, and close the window.
3. Perform a Build.

How do I know that it is really rebuilding?

A.

This problem has been corrected in TM V.1.11 and all later versions. We suggest you use TM V.1.11 or later.
Please upgrade to the latest TM version.

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Last Updated: August 5, 2002
Document Number: 01051149_e

Q.

Can the stk30 utility included in the M16C compiler NC30WA be executed from TM? If so, how?

A.

TM V.2.00 (upgrade date 3/16/99) and all later versions allow you to use the stk30 utility as part of the build command. We suggest you use TM V.2.00 or later.
Please upgrade to the latest TM version.

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Document Number: 01051150_e

Q.

When I use M16C compiler NC30WA and use TM to build, I get an error during assemble because it can't find the include file in the same directory as the assembler source file.

A.

Please specify the include path in the AS30 options or the environment variables. To set the path select the BUILD tab in the Project Setting dialog.

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Document Number: 01051151_e

Q.

Can I modify the Makefile generated by TM?

A.

We do not recommend modifying the Makefile.
If you wish to do so, copy the Makefile under a different file name and make changes to that copied file. You can use the copied file in your project by registering it with the MAKEFILE tab in the Project Setting dialog. However, any TM operations executed after this change (source file additions, option changes, etc.) will not be reflected to the new Makefile.

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Document Number: 01051152_e

Q.

What is the renewal timing for the *.mak file generated by TM?

A.

Each time [compile specified file], [build], and [rebuild] are executed.

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Document Number: 01051153_e

Q.

When the contents of the header file are renewed, does TM only compile the source included in that file?

A.

Yes, only the source related to the renewed header file is compiled.

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Last Updated: September 20, 2001
Document Number: 01051154_e

Q.

What is the method for specifying the order of the module links in the TM environment?

A.

- Version 3.00 and later
  Change the link order in the Project Editor.

  [Procedure]

  (1) Select the [xxx.cmd] item from the "Dependencies" tree.

  (2) Select [Project] -> [Edit Item] -> [Command] in the menu. The command dialog will be displayed.

  (3) In the list, there will be several lines like the following.
  "$(ECHO)\$(OUTDIR)\relocatable file name >> $(ODINCMD)\$(LNLIST)"
  Select the line and change the order using the [↑] [↓] buttons.

- Version 2.01 and earlier
  Change the link order in the Project Setting Dialog.

  [Procedure]

  (1) Start the Project Setting Dialogue by selecting [Environment] -> [Project Setting] from the menu.

  (2) Select the LINK tab.

  (3) The link order is displayed by relocatable file names. Select the name of the file you want to move, then click on the Up and Down buttons to move the file. The files are linked from the top, in the order shown in the LINK tab.

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Last Updated: August 5, 2002
Document Number: 01051155_e

Q.

When I execute a build, I get the following error message:

```
make.exe: *** No rule to make target 'Output\XYZ.r30', needed by 'Output\sample.x30'.
Stop
```

When I checked the Makefile, there was no description to create object "XYZ.r30". When I try 'Scan All Dependencies' it indicates that Makefile is supposed to be updated, but nothing happened.

A.

This occurs when the file name as been modified from upper- to lower-case letters (and vice versa).
Example: Modifying your file name from "XYZ.c" to "wyz.c" and re-registering that source file in the project. When reviewing the Makefile, "XYZ.r30" is written in lower-case letters (xyz.r30).

This problem has been corrected in TM V.2.00 (upgrade date 3/16/99) and all later versions. We suggest you use TM V.2.00 or later.
Please upgrade to the latest TM version.

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Document Number: 01051156_e

Q.

I got a compile error during a build because the compiler can't find the 'source file' and 'include file' which are located in different directories.

A.

You will need to specify the 'include file' path by the compiler option or in the environment variables. The path can be specified with the BUILD tab in the Project Setting Dialog.

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Document Number: 01051157_e

Q.

I have a project file or source file in the networked file server, but I can't perform the build.

A.

If the clocks are different between the machine executing TM and the machine hosting the files, TM won't build your project. You should adjust the machine clocks and build again.

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Document Number: 01051158_e

Q.

When the compile result is properly output on the output window and I double click on an error message for a tag-jump, TM opens the editor window, but does not let me go to the corresponding source line. What is wrong? (I am using Mifes V3.0.)

A.

There is probably something missing in the configuration setup for Mifes. Please confirm the set information using the following procedure.

1. Select from Menu --> [Environment] --> [Tool] to open Tools Information Dialog. Click on EDIT tab.
2. Select Mifes, press the Modify button.
3. The configuration setup information for Mifes will be displayed in the Editor Tool Information Dialog.

Make sure that the [Parameter] in the Editor Tool Information Dialog is set follows:

```
Setting: Parameter  %F+%L
```

If it is not set as indicated above, input the parameter (%F+%L), press OK, and complete the setup procedure.

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Document Number: 01051159_e

Q.

When an error occurs in the results of my BUILD, I double-click on the line displaying the error in the output window, but the editor doesn't display the corresponding line.

A.

When using the Notepad as the editor, the editor doesn't have a tag-jump function to let the editor jump to the corresponding line. Please use an editor, such as Mifes, that has the proper tag-jump function.

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Last Updated: August 5, 2002
Document Number: 01051160_e

Q.

After I debug my project with TM, I save the project and quit the program. The next time I open the project and load it to your emulator, it tells me to build again, even though I haven't made any modifications since I saved it. Why?

A.

TM V.2.00 (upgrade date 3/16/99) and all later versions have been modified so that it no longer tells the user to build again if there haven't been any modifications made. We suggest you use TM V.2.00 or later.
Please upgrade to the latest TM version.

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Last Updated: August 5, 2002
Document Number: 01051161_e

Q.

I want to specify the parameters for executing the debugger.

A.

TM V.2.00 (upgrade date 3/16/99) and all later versions allow you to specify the parameters for executing the debugger. We suggest you use TM V.2.00 or later.
Please upgrade to the latest TM version.

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Last Updated: August 5, 2002
Document Number: 01051162_e

Q.

When I want to use other tools with TM V.2.00 and I modify the current directory, I have no problems immediately after the modification, but, when I re-open the project, the current directory information has not been saved. To be specific, I want to change the current directory to "Working Directory", but whenever I re-open the project, it always goes back to "Directory that contains the execution file". Why?

A.

This problem has been corrected in TM V.2.01 (upgrade date 7/16/99) and all later versions. We suggest you use TM V.2.01 or later.
Please upgrade to the latest TM version.

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Document Number: 01051163_e

Q.

When I execute other tools by going from [Action] --> [Other] in the TM menu, I get the following message:

"Code Page 932 is not supported by this system."

Is this a problem? This message does not come up when I execute LMC30 in DOS window.

A.

When you execute the program in DOS window from TM in the Japanese development environment, the program is executed under the Japanese-version command.com code page. This error does not effect the lmc30 operation even when the error message related to the code page occurs. Also, please note that this problem does not occur in the English development environment.
The following procedure can be used to avoid this message:

1. Open autoexec.bat with the editor.
2. Add [loadhigh C:\WINDOWS\nlsfunc.exe C:\WINDOWS\country.sys] (This should be added near the first line, depending on the contents of autoexec.bat.)
3. Reboot your PC.

This procedure assumes that Windows95 was installed under [c:\windows (default)]. When Windows95 has been installed in a different directory, change the directory name accordingly.

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Document Number: 01051164_e

Q.

Can I use "%F" with Other Tools when specifying a parameter, such as a file name?

A.

No, you cannot specify "%F" when specifying a file name as the parameter. However, when you select a file in the File Tree by clicking the left button and executing Other Tools, that file will be recognized as the parameter.

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Document Number: 01051165_e

Q.

When I execute other tools by going from [Action] --> [Other] in the TM menu, I get the following message: Out of parameter limits.

A.

This condition occurs due to the Windows95 setup. You can avoid this message by setting the initial size of the environment variables to [AUTO] using the property of SYSTEM\CONAGENT.EXE.

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Last Updated: June 21, 2004
Document Number: 01072305_e

Q.

How do I create ROM programming data with TM?

A.

Execute the load module converter in the following manner.

1. Boot up TM, then start the ProjectEditor.
2. Select [Project] -> [Information] from the menu.
3. The Information Dialog will appear on the screen.
4. Click on the tool tab at the top in the dialog.
5. Select load module converter (ex. lmc30) from the items in the middle of the dialog.
   M3T-NC30WA: lmc30
   M3T-NC308WA: lmc308
   M3T-NC79WA: lmc79
   M3T-CC32R: lmc32R
6. Click on the OK button.

These steps will complete the setup for TM.
It will now be ready to rebuild.

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Last Updated: November 6, 2000
Document Number: 01051166_e

Q.

Can I use TM V.2.01 and NC308WA V.3.00 together?

A.

NC308WA V.3.00 Release 1 supports TM V.3.00 or later.
Any versions released earlier than TM V.3.00 cannot be used in combination with NC308WA V.3.00. Please upgrade to the latest TM version, which is available from our homepage on the online upgrade site.

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Last Updated: April 5, 2000
Document Number: 01051167_e

Q.

When I make the TM window smaller than the Output window, the Tree and View windows are both hidden. In this situation, how can I make the Tree, View, and Output windows smaller?

A.

You need to make those windows smaller before making the TM window smaller. You can not make them smaller if each window stays out of the TM window border.

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Last Updated: August 5, 2002
Document Number: 01051168_e

Q.

It seems that the latest TM version takes much longer to load or compile a project. Is this something that can't be avoided due to additional functions in upgraded versions?

A.

This problem has been corrected in TM V.2.01 (upgrade date 7/16/99) and all later versions. We suggest you use TM V.2.01 or later.
Please upgrade to the latest TM version.

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Last Updated: August 5, 2002
Document Number: 01051169_e

Q.

I can't quit TM V.1.00. I've tried pressing the X mark at the top-right of the screen or using ALT + F4, but they don't work. The only way to quit TM is to reset my PC or press Ctrl + Alt + Delete.

A.

This problem has been corrected in TM V.1.11 and all later versions. We suggest you use TM V.1.11 or later.
Please upgrade to the latest TM version.

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Last Updated: August 5, 2002
Document Number: 01051170_e

Q.

I want to change the TAB and FONT settings in the view window. If it is possible, I want to change them for each file type.
Also, can I bring the editor cursor position to the position I have already set in the view window as soon as I execute the editor from TM?

A.

TAB and FONT cannot be changed in the view window.
However, TM V.2.00 (upgrade date 3/16/99) and all later versions allow you to change the editor cursor position in relation to the view window cursor position. We suggest you use TM V.2.00 or later.
Please upgrade to the latest TM version.

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Document Number: 01051171_e

Q.

Does the File Tree actually create the Target, Source, and Header folders that are displayed in the tree?

A.

No, these folders are not actually created. As one of TM's GUI features, the File Tree categorizes and displays folders and files based on file type. However, this is not the actual file system.

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Document Number: 01051172_e

Q.

Can I make my source directory with the File Tree and manage my files through it?

A.

The TM does not manage the directory structure, so you can't do this.

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Document Number: 01051173_e

Q.

Can I create a new directory in the working directory and keep files (source file, header file) there? Also, will File Tree properly display them when I do this?

A.

Yes, you can make a new directory and store your source files. The files registered in the project will be classified as source file, include file, etc., then displayed in the TM "File Tree". Therefore, you can find the location of the source file by looking into the source file branch of the File Tree.

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Last Updated: June 21, 2004
Document Number: 04051002_e

Q.

When I describe enumerators for the left and right operands of the conditional operator ":" the return value is input as an enumerated variable, I get a report message regardless of using the same type.
Why does SQMlint output this message?

C source example:

```
 --------------------------
  enum E { A, B, C };

  void func(int i)
  {
      enum E e;
      e = (i == 0) ? A : B;
  }
 --------------------------
```

Message output:

```
  Rule 43 (Complaining) "information loss conversion (from 'signed int' to 'enum E')
  in assignment operation"

  Rule 29 (Complaining) "enum type object to which has not been assigned own
enumerator"
```

A.

When describing enumerators on the left and right side of the conditional operator ":", the conditional operator returns an int type value. Therefore, SQMlint judges the returned int type as different from the enumeration type, and therefore outputs a report message.
In this case, please ignore the report message.

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Last Updated: June 7, 2004
Document Number: 04051001_e

Q.

When I describe an enum type parameter for the prototype declaration and use an enumerator-type argument for the function call, I get the following report messages regardless of using the same type.
Why does SQMlint output these messages?

C source example:

```
----------------------
 enum E { A, B, C };
 void func1(enum E);

 void func2()
 {
    func1(A);
 }
----------------------
```

Message output:

```
 Rule 77 (Complaining) "argument type shall be compatible with prototype,
 the 1st argument"
```

A.

The enumerator type is int type.
As SQMlint compares the parameter with the corresponding argument strictly, it recognizes "enum E" type and "int" type differently, and therefore outputs the above messages.
In this case, please ignore the report messages.

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Last Updated: April 5, 2004
Document Number: 04030501_e

Q.

I want to output the results checked by SQMlint into report files while compiling several C language source files. How can I output the results of each source file in a separate report file?

A.

Please use the HEW or TM integrated development environment.

To use HEW

For M3T-NC30, M3T-NC308:
(1) Select Options, then Renesas M16C Standard Tool Chain Menu.
(2) Select MISRA C Rule Check in the C tab category in the dialog.
(3) Set "[-r] Report file name:" as follows
$(CONFIGDIR)\$(PROJECTNAME).csv

For M3T-CC32R:
(1) Select Options, then Renesas M32R Standard Tool Chain Menu.
(2) Select MISRA C Rule Check in the C tab category in the dialog.
(3) Set "[-misra_report] Report file name:" as follows
$(CONFIGDIR)\$(PROJECTNAME).csv

To use TM

For M3T-NC30, M3T-NC308:
(1) Select Project, then Option Browser Menu.
(2) Select CFLAGS and click on [Mod...]
(3) Select [MISRA-C Checking Options] in the Option Changes category.
(4) Check the -sqmlint option, and set the parameter string as follows
-misra all -r $*.csv

For M3T-CC32R:
(1) Select Project, then Option Browser Menu.
(2) Select CFLAGS and click on [Mod...]
(3) Select [MISRA-C Checking Options] in the Option Changes category.
(4) Check the -misra_report option, and set the parameter string as follows
$*.csv

[Note]
To input the command from the command line, specify the report file name for each file you compile.

```
-------------------------------------------------------------
>nc308 -c test.c -sq -sqmlint "-misra all -r test.csv"
-------------------------------------------------------------
```

In other words, compile one C source file at a time. When the command line is executed in the following manner, only the report results for test2.c are stored in the report.csv file.

```
-------------------------------------------------------------
>nc308 test1.c test2.c -sq -sqmlint "-misra all -r report.csv"
-------------------------------------------------------------
```

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